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In The Claims:

1. - 20. (Canceled)

21. (Currently Amended) A method for fixing bone comprising:

providing a bone plate configured and dimensioned for application to a patient's bone, the plate having an upper surface, a lower surface and at least one opening extending from the upper surface to the lower surface, the opening defining a first axis substantially perpendicular to the upper surface and the opening, the opening provided with non-thread protrusions configured and dimensioned to have the same pitch and mate with the threads on a bone screw head;

applying the bone plate to a patient's bone;

inserting a bone screw through the opening in the bone plate at a selected, variable angle of rotation relative to the first axis, the bone screw having a threaded head portion, the threaded head portion having a double entry thread; and

tightening the bone screw such that the threaded head portion of the screw mates with one or more of the protrusions of the inner surface of the opening in the bone plate to lock the screw to the plate at the selected angle relative to the first axis.

22. (Original) The method of claim 21, wherein the head of the bone screw is at least partially spherical.

23. (Original) The method of claim 21, wherein the bone screw includes a shank portion having threads, and the threads of the shank portion have substantially the same pitch as the threads of the head portion.

24. (Original) The method of claim 21, wherein the inner surface of the opening in the plate includes a first area having protrusions and a second area without protrusions and the second area is greater than the first area.

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25. (Original) The method of claim 24, wherein the inner surface of the opening includes between about 2 and about 30 protrusions.
26. (Original) The method of claim 24, wherein the bone screw is self-drilling.
27. (Original) The method of claim 21, wherein the bone screw is self-tapping.
28. (Original) The method of claim 21, wherein the bone screw has a non-threaded shaft portion.
29. (Original) The method of claim 21, wherein the opening of the plate comprises a plurality of frustoconical holes that form an hourglass shape, and each protrusion formed on the inner surface of the opening has a flat shape with a width greater than its length.
30. (Original) The method of claim 21, wherein at least some of the protrusions are substantially wedge-shaped.
31. (Original) The method of claim 21, wherein at least some of the protrusions are symmetrically distributed in a plane along a circumference of the inner surface of the opening.
32. (Original) The method of claim 21, wherein the protrusions are distributed in two substantially parallel planes along the inner surface of the opening.
33. (Original) The method of claim 21, wherein the angle of orientation of the bone screw relative to the first axis may vary from about zero degrees to about twenty degrees.
34. (Currently Amended) A method of fixing bone whereby a fixation device having at least one opening is secured to at patient's bone using a threaded bone engaging member, the method comprising:

applying the fixation device to the patient's bone;

selecting an angle of orientation of the bone engaging member relative to the

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fixation device;

threading the bone engaging member through the opening at the selected angle of orientation with respect to the fixation device;

threading a double-entry threaded head of the bone engaging member onto non-thread protrusions formed on an inner surface of the opening, the protrusions configured and dimensioned to have the same pitch and mate with the double-entry threads for the head of the bone engaging member at the selected angle of orientation; and

tightening the bone engaging member to rigidly lock the bone engaging member at the selected angle of orientation with respect to the fixation device without using any additional, separate components at an interface between the bone engaging member and the fixation device.

35. (Original) The method of claim 34, wherein the head of the bone engaging member is partially spherical and the bone engaging member includes a threaded shank, and the threads of the head and the shank have substantially the same pitch.
36. (Original) The method of claim 34, wherein the protrusions are formed on the inner surface of the opening near the top of the opening.
37. (Original) The method of claim 34, wherein the inner surface of the opening in the fixation device includes a first area having protrusions and a second area without protrusions and the second area is greater than the first area.
38. (Original) The method of claim 34, wherein the fixation device includes between about 2 and about 30 protrusions.
39. (Original) The method of claim 34, wherein the opening of the fixation device comprises a plurality of frustoconical holes that form an hourglass shape, and each protrusion formed on the inner surface of the opening has a flat shape with a width greater than its length.

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40. (Original) The method of claim 34, wherein the protrusions are substantially wedge-shaped.
42. (Original) The method of claim 34, wherein at least some of the protrusions are symmetrically distributed in a plane along a circumference of the inner surface of the opening.
43. (Original) The method of claim 34, wherein the angle of orientation of the bone engaging member relative to the fixation device may vary from about zero degrees to about twenty degrees.
44. (Currently Amended) A bone fixation system comprising:
- a fixation device configured and dimensioned for application to a patient's bone, the fixation device having an upper surface, a lower surface and at least one opening extending from the upper surface to the lower surface, the opening defining a first axis substantially perpendicular to the upper surface and the opening including a plurality of isolated, non-thread protrusions formed on an inner surface of the opening, the protrusions configured and dimensioned to have the same pitch and mate with threads on a bone engaging member; and
 - a bone engaging member configured and dimensioned for insertion through the opening in the fixation device at a selected angle of orientation relative to the first axis, the bone engaging member having a threaded head portion, the threaded head portion having a double entry;
 - wherein upon tightening of the bone engaging member, the threaded head portion of the bone engaging member mates with one or more protrusions of the inner surface of the fixation device opening to lock the bone engaging member to the plate at the selected angle of orientation relative to the first axis.
45. (Currently Amended) The system of claim 44, therein the fixation device is a bone plate and the bone engaging member is a bone screw.

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46. (Original) The system of claim 45, wherein the head of the bone screw is at least partially spherical.
47. (Original) The system of claim 46, wherein the bone screw includes a shank portion having threads, the threads of the shank portion have substantially the same pitch as the threads of the head portion.
48. (Original) The system of claim 44, wherein the inner surface of the opening in the fixation device includes a first area having protrusions and a second area without protrusions and the second area is greater than the first area.
49. (Original) The system of claim 48, wherein the inner surface of the opening includes between about 2 and about 30 protrusions.
50. (Original) The system of claim 44, wherein the opening of the fixation device comprises a plurality of frustoconical holes that form an hourglass shape, and each protrusion formed on the inner surface of the opening has a flat shape with a width greater than its length.
51. (Original) The system of claim 44, wherein the protrusions are substantially wedge-shaped.
52. (Original) The system of claim 44, wherein at least some of the protrusions are symmetrically distributed in a plane along a circumference of the inner surface of the opening of the fixation device.
53. (Original) The system of claim 44, wherein the protrusions are configured and dimensioned to lock the bone fixation member relative to the fixation device at a variable angle of orientation of between about zero degrees and about twenty degrees.
54. (Original) The system of claim 43, wherein the protrusions are configured and dimensioned to lock the bone fixation member relative to the fixation device at a variable angle of orientation of between about zero degrees and about twenty degrees.
55. (New) The method of claim 21, wherein each of the protrusions includes one of a peg

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and a spike.

56. (New) The method of claim 34, wherein each of the protrusions includes one of a peg and a spike.

57. (New) The system of claim 44, wherein each of the protrusions includes one of a peg and a spike.